TINA-M

~30° medium beam. Assembly with holder, installation tape and location pins.

SPECIFICATION:

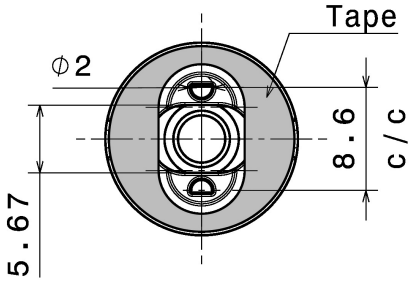
Dimensions	Ø 16.1 mm
Height	9.5 mm
Fastening	pin, tape
ROHS compliant	yes

MATERIALS:

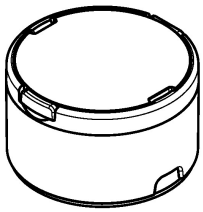
Component	Type	Material	Colour	Finish
TINA-M	Single lens	PMMA	clear	
TINA-HLD-PIN-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

ORDERING INFORMATION:

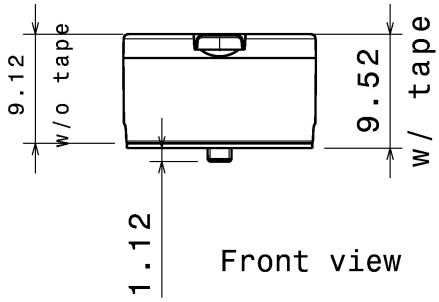
Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA11206_TINA-M	Single lens	2016	288	144	4.1
» Box size:					



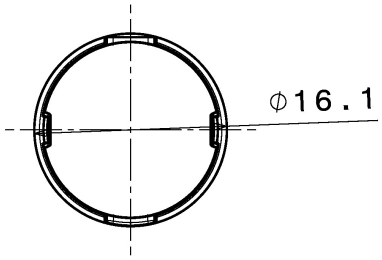
Bottom view



Isometric view



Front view



Top view

Materials
Lens: PMMA
Holder: PC
Tape: PU Foam

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

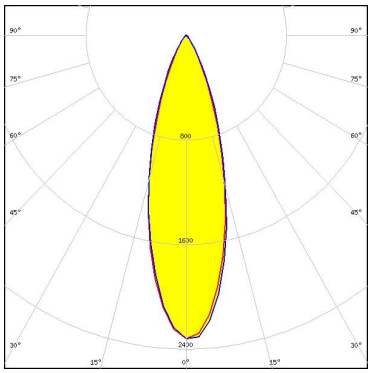
DRAWN BY: as	DATE: 10.9.2012	DRAWING TITLE: Mechanical Drawing		
CHECKED BY: sn	DATE: -	TINA-OSL		
DESIGNED BY: -	DATE: -	SIZE: A4	PART NUMBER: TINA-OSL	REV: 001
		SCALE: 2:1	WEIGHT: 1,47 g	SHEET: 1/1

See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

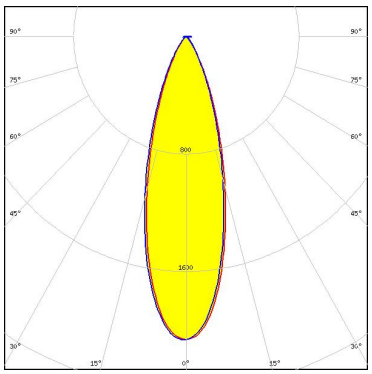
CREE LEDs

LED	XB-H
FWHM / FWTM	31.0° / 58.0°
Efficiency	80 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



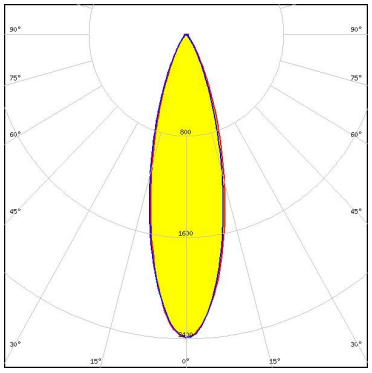
NICHIA

LED	NVSW3x9A
FWHM / FWTM	31.0° / 60.0°
Efficiency	78 %
Peak intensity	2.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	Duris S5 (2 chip)
FWHM / FWTM	29.0° / 58.0°
Efficiency	82 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	OSLON SSL 150
FWHM / FWTM	30.0° / 54.0°
Efficiency	85 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (MEASURED):

OSRAM Opto Semiconductors

LED	OSLON SSL 80
FWHM / FWTM	24.0° / 56.0°
Efficiency	83 %
Peak intensity	2.3 cd/lm
LEDs/each optic	1
Light colour	White

Required components:

OSRAM Opto Semiconductors

LED	SFH 4715S
FWHM / FWTM	28.0° / 56.0°
Efficiency	%
LEDs/each optic	1
Light colour	White

Required components:

OSRAM Opto Semiconductors

LED	SFH 4725S
FWHM / FWTM	27.0° / 58.0°
Efficiency	%
LEDs/each optic	1
Light colour	White

Required components:

SAMSUNG

LED	LH351A
FWHM / FWTM	32.0° / 60.0°
Efficiency	91 %
Peak intensity	1.5 cd/lm
LEDs/each optic	1
Light colour	White

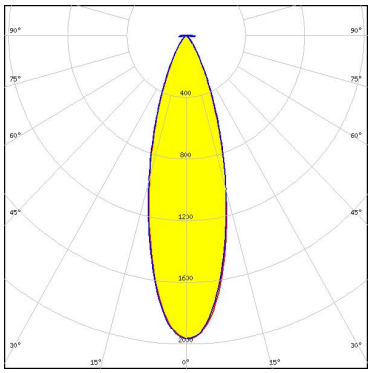
Required components:

OPTICAL RESULTS (MEASURED):

SEOUL SEMICONDUCTOR

LED	Z8Y22P
FWHM / FWTM	30.0° / 60.0°
Efficiency	75 %
Peak intensity	2 cd/lm
LEDs/each optic	1
Light colour	White

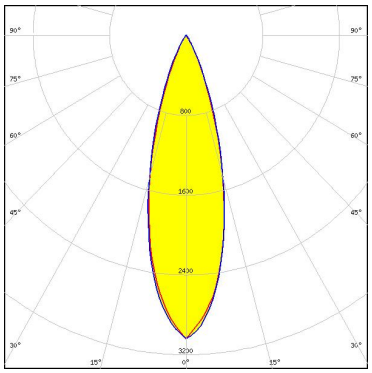
Required components:



OPTICAL RESULTS (SIMULATED):

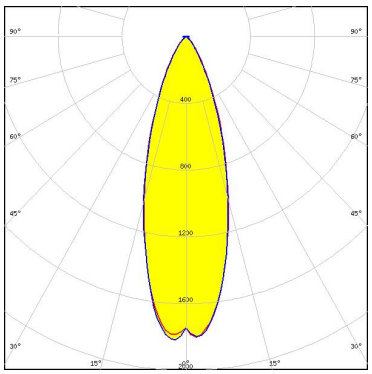
LUMILEDS

LED	LUXEON SunPlus 20 Line (150 deg)
FWHM / FWTM	30.0° / 53.0°
Efficiency	89 %
Peak intensity	3 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



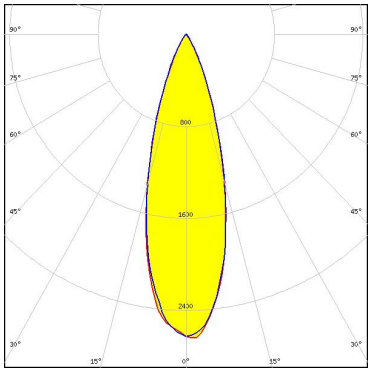
NICHIA

LED	NCSxE17A
FWHM / FWTM	33.0° / 65.0°
Efficiency	79 %
Peak intensity	1.8 cd/lm
LEDs/each optic	4
Light colour	White
Required components:	



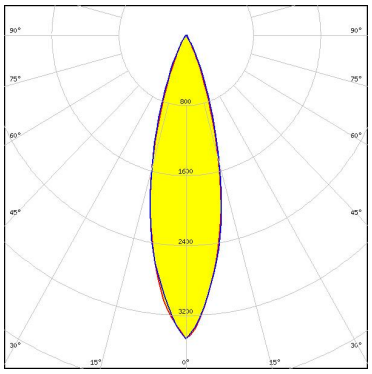
NICHIA

LED	NVSxx19B/NVSxx19C
FWHM / FWTM	30.0°
Efficiency	86 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



OSRAM
Opto Semiconductors

LED	SYNIOS S2222
FWHM / FWTM	28.0° / 50.0 + 52.0°
Efficiency	97 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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